

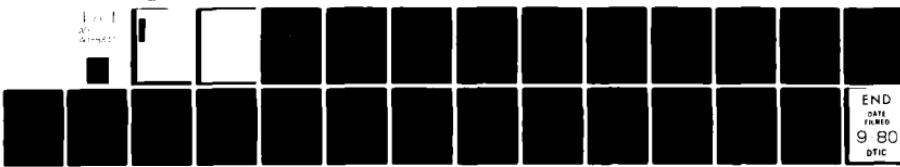
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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
12823A LANCE, MISSILE NUMBER 4240, ROUND NUMBER 354 ECL. 10 JUL--ETC(U)

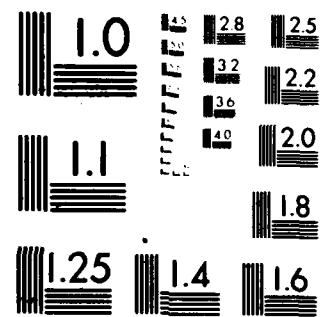
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21. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of 12823A LANCE, Missile Number 4240, Round Number 354 ECL, presented in tabular form.		

410-003

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Justification	
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Availability Codes	
Dist.	Avail and/or special
91	23 of

INTRODUCTION

12823A LANCE, Missile Number 4240, Round Number 354 ECL, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0735 MDT on 10 July 1980. The scheduled launch time was 0730 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), Wind direction and speed, and cloud cover were made at the Don Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pilbar observation at:

SITE AND ALTITUDE

Don 0728 MDT 1260 meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible in 500-feet increments.

SITE AND TIME

WSD 0720 MDT

HMN 0630 MDT

TABLE 1. Surface Observations Taken at 0730 MDT,
10 July 1980, at Don Site, 12823A LANCE,
Missile Number 4240, Round Number 354 ECL.

ELEVATION	3997	FT/MSL
PRESSURE	882.7	MBS
TEMPERATURE	24.7	°C
RELATIVE HUMIDITY	48	
DEW POINT	13.0	°C
DENSITY	1025	GM/M ³
WIND SPEED	calm	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	1 2	CU CI

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM **Don Site** DATE **10 July 1980** TIME **0728 MDT**

DATE

10 July 1980

TIME 0728 MDT

COORDINATES (WSTM) X= 511,988.37 Y= 247,396.36 U 3996.83

511,988.37

Y = 247,396.36

3996.83

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL _____.

STATION ALTITUDE 3989.00 FEET MSL
11 JULY 80 0720 HRS MDT
ASCENSION NO. 361

SIGNIFICANT LEVEL DATA

192010Z0367

WHITE SANDS

GEODETIC COORDINATES
52.40043 LAT DEG
106.37033 LON UEG

TABLE 3.

PRESSURE GEOMETRIC MILLIBARS	ALTITUDE FEET	TEMPERATURE			REL. HUM. PERCENT
		AIR	DEWPOINT	DEGREES CENTIGRADE	
882.6	3989.0	22.1	15.9	68.0	
871.4	4355.8	24.9	13.7	51.0	
859.0	5070.5	22.9	12.2	51.0	
763.6	8121.2	16.9	8.0	52.0	
709.0	10551.5	12.5	5.9	64.0	
662.0	12083.3	8.8	3.2	68.0	
653.0	12655.0	8.0	3.7	60.0	
635.4	13194.6	5.5	-1.2	62.0	
609.6	14104.6	3.1	-7.9	44.0	
601.0	14483.9	3.8	-13.4	27.0	
567.6	16207.6	2.7	-15.8	24.0	
534.8	17779.5	-1.2	-19.1	24.0	
500.0	19537.2	-3.1	-21.8	22.0	
442.0	22655.6	-10.7	-27.7	23.0	
400.0	25195.3	-17.3	-32.5	25.0	
373.4	26600.6	-21.0	-35.7	25.0	
360.2	27754.8	-21.5	-36.2	25.0	
328.6	29763.2	-26.0	-39.4	27.0	
316.4	30462.1	-27.6	-40.4	26.0	
300.0	32113.5	-31.2	-45.3	29.0	
263.8	35068.4	-38.7	-49.9		
250.0	36276.7	-41.4			
209.0	41138.1	-53.4			
174.0	46045.5	-61.4			
156.0	47156.0	-65.8			
139.8	48054.2	-69.4			
131.0	49610.3	-70.7			
124.0	50809.6	-69.6			
109.0	53125.7	-73.8			
109.0	54096.0	-71.4			
17.8	59084.5	-6.0			
70.0	62119.9	-60.5			

STATION ALTITUDE 3989.00 FEET MSL
10 JULY 1960 0720 HRS MDT
ASCENSION ISL.

SIGNIFICANT LEVEL DATA
19201120367

WHITE SANDS

TABLE 3 (continued)

PRESSURE GRADIENT MILLIBARS MSL FEET	ALTIMETER MILLIBARS MSL FEET	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
65.0	65012.0	-65.5	
50.0	68013.6	-50.4	
50.0	79011.5	-49.7	
20.0	88019.6	-11.3	
12.6	93013.8	-30.9	

GEODETIC COORDINATES
32°40'04.3 LAT DEG
106°37'03.3 LON DEG

STATION ALTITUDE 3499.00 FEET MSL
10 JULY 1970 0720 HRS MDT
STATION NO. 507
ELEVATION NO. 307

UPPER AIR DATA
192002367
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 4.

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CEN/10 GRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(10) KNOTS	INDEX OF REFRACTION
3499.00	1022.6	22.1	15.9	6.9.0	1033.3	672.0	•0
3499.00	1022.5	22.2	15.9	67.5	1032.7	672.1	108.1
3499.00	1021.6	24.2	13.4	51.0	1009.0	674.0	108.1
3499.00	1022.1	23.1	12.4	51.0	995.7	672.6	108.1
3499.00	1022.3	22.3	11.8	51.1	988.9	671.8	108.1
3499.00	1022.7	21.7	11.2	51.5	966.1	671.0	107.6
3499.00	1022.4	21.0	10.6	51.5	971.5	670.2	106.2
3499.00	1024.3	20.4	10.1	51.6	937.1	669.4	118.2
3499.00	1020.5	19.7	9.5	51.8	923.0	668.6	130.1
3499.00	1020.9	19.1	9.0	52.0	909.1	667.8	127.4
3499.00	1020.0	17.9	8.4	53.9	896.7	666.5	125.2
3499.00	1020.0	16.6	7.9	56.3	884.9	664.9	111.2
3499.00	1020.8	15.3	7.3	58.8	873.2	663.4	100.9
3499.00	1014.0	14.0	6.6	61.3	861.0	661.8	92.1
3499.00	1011.3	12.6	6.0	63.7	850.6	660.3	86.2
3499.00	1018.7	11.4	5.1	65.2	839.0	658.8	82.2
3499.00	1016.2	10.2	4.3	66.3	827.5	657.3	79.3
3499.00	1064.0	9.0	3.4	67.8	816.2	655.8	77.3
3499.00	1051.9	7.9	•6	60.1	805.2	654.3	75.5
3499.00	1040.0	6.2	•7	61.5	795.2	652.2	74.2
3499.00	1028.2	4.8	-2.9	57.0	784.9	650.5	73.2
3499.00	1016.0	3.0	-6.0	48.9	773.8	649.1	76.6
3499.00	1015.0	3.5	-10.4	35.2	760.3	648.5	85.2
3499.00	1003.9	3.6	-13.9	26.4	746.7	648.5	97.0
3499.00	1032.9	3.2	-14.7	25.4	733.8	648.0	108.9
3499.00	1072.0	2.8	-15.5	24.4	721.2	647.6	115.6
3499.00	1061.3	2.0	-16.4	24.0	710.0	646.6	115.7
3499.00	1050.0	•7	-17.5	24.0	699.9	645.1	117.6
3499.00	1040.5	-5	-16.5	24.0	689.9	643.6	119.6
3499.00	1030.3	-1.4	-16.5	23.7	679.3	642.5	125.6
3499.00	1020.2	-2.0	-20.2	23.2	667.0	641.8	127.7
3499.00	1010.4	-2.5	-21.9	22.0	656.4	641.2	129.7

STATION ALTITUDE 3989.00 FEET ASL
1st JULY 68
ASCENSIOIN 1.0. 51° 0720 HRS MDT

UPPER AIR DATA
192000Z 30JUL
WHITE SANDS

GEODETIC COORDINATES
32°40.043 LAT DEG
106.37033 LON DEG

TABLE 4 (continued)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION ULGREES (IN)	WIND SPEED KILOTS	WIND DATA INDEX OF REFRACTION
19500.0	500.0	-5.1	-21.7	22.0	645.3	640.5	131.2	23.6	1.000149
20000.0	491.1	-4.2	-22.6	22.1	635.6	639.1	131.4	23.7	1.000147
20500.0	481.6	-5.4	-21.6	22.3	626.3	637.6	131.3	23.7	1.000144
21000.0	472.3	-6.7	-21.5	22.5	617.0	636.2	132.2	23.2	1.000142
21500.0	463.2	-7.9	-21.5	22.6	607.9	634.7	133.7	22.6	1.000140
22000.0	454.3	-9.1	-26.5	22.6	599.0	633.2	135.6	21.5	1.000137
22500.0	445.5	-10.3	-27.4	23.0	590.2	631.8	137.9	20.1	1.000135
23000.0	436.7	-11.5	-21.4	23.3	581.4	630.9	139.3	18.4	1.000133
23500.0	428.1	-12.7	-27.3	23.7	572.7	628.6	139.3	16.4	1.000131
24000.0	419.6	-14.2	-30.3	24.1	564.2	627.1	128.4	14.8	1.000128
24500.0	411.3	-15.5	-11.2	24.5	555.9	625.5	135.2	14.1	1.000126
25000.0	403.1	-16.8	-32.2	24.9	547.6	623.9	131.7	13.4	1.000124
25500.0	395.1	-18.0	-51.1	25.0	539.1	622.4	125.1	15.0	1.000122
26000.0	387.1	-19.1	-34.1	25.0	530.5	621.1	119.9	16.9	1.000120
26500.0	379.2	-20.2	-35.0	25.0	522.1	619.7	114.3	18.1	1.000118
27000.0	371.6	-21.1	-35.8	25.0	513.3	618.6	108.8	19.1	1.000116
27500.0	364.0	-21.4	-36.1	25.0	503.5	618.3	104.9	19.3	1.000114
28000.0	356.3	-22.0	-36.5	25.2	494.4	617.5	100.4	18.8	1.000112
28500.0	349.2	-23.0	-37.2	25.7	486.2	616.2	95.8	18.9	1.000110
29000.0	342.1	-24.0	-38.0	26.1	470.2	615.0	91.1	19.6	1.000108
29500.0	335.0	-25.1	-38.7	26.6	470.3	613.7	85.9	20.7	1.000106
30000.0	328.1	-26.1	-39.4	27.0	462.5	612.4	80.9	22.0	1.000104
30500.0	321.3	-27.0	-40.0	27.6	454.5	611.5	76.4	22.8	1.000102
31000.0	314.6	-28.0	-40.7	28.1	446.9	610.0	72.4	23.5	1.000101
31500.0	307.9	-29.4	-41.9	28.5	440.1	608.2	69.7	23.6	1.000099
32000.0	301.3	-30.9	-43.0	28.9	433.4	606.4	68.5	23.6	1.000097
32500.0	295.0	-32.2	-44.1	29.0	426.4	604.8	69.7	23.3	1.000096
33000.0	288.6	-33.5	-45.3	29.0	419.4	603.2	70.5	23.4	1.000094
33500.0	282.4	-34.7	-46.4	29.0	412.6	601.6	71.2	23.7	1.000093
34000.0	276.4	-36.0	-47.5	29.0	405.9	600.0	73.3	24.0	1.000091
34500.0	270.4	-37.3	-48.7	29.0	399.3	598.4	75.8	24.2	1.000089
35000.0	264.6	-38.5	-49.8	29.0	392.8	596.8	78.9	24.1	1.000088

STATION ALTITUDE 3989.00 FEET
10 JULY 1967
ASCENSION NO. 500
0720 HRS MDT

UPPER AIR DATA
1920-210567
WHITE SANDS

GEODETIC COORDINATES
32.40063 LAT DEG
106.37033 LON DEG

TABLE 4 (continued)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRANE	REL.HUM. PERCENT	REL.HUM. PERCENT	REL.HUM. PERCENT	DENSITY GM/CUHIC METER ³	WIND DATA DIRECTION DEGREES (TRUE)	WIND DATA SPEED KIOTS	INDEX OF REFRACTION
36510.0	1018.0	-39.7	-51.5	18.6**	386.1	595.3	82.0	24.1	1.000086
36010.0	1015.1	-40.8	-63.4	6.6**	379.4	593.9	82.6	24.3	1.000085
36510.0	1017.5	-42.0			372.9	592.4	82.9	24.5	1.000083
37010.0	1011.8	-43.2			366.3	590.8	81.3	24.6	1.000082
37510.0	1016.3	-44.4			360.0	589.2	79.5	24.8	1.000080
38010.0	1011.0	-45.7			353.7	587.6	75.2	24.7	1.000079
38510.0	1025.7	-46.9			347.6	586.0	70.6	24.8	1.000077
39010.0	1020.6	-48.1			341.5	584.4	69.7	25.1	1.000076
39510.0	1015.6	-49.4			335.6	582.8	69.7	25.5	1.000075
40010.0	1010.7	-50.6			329.9	581.2	71.4	24.7	1.000073
40510.0	1010.9	-51.8			324.2	579.6	73.6	23.4	1.000072
41010.0	1011.3	-53.1			318.6	578.0	74.2	22.2	1.000071
41510.0	1016.6	-54.3			312.8	576.4	72.4	21.2	1.000070
42010.0	1011.9	-55.5			307.1	574.8	70.3	20.7	1.000068
42510.0	1017.4	-56.7			301.5	573.2	68.0	21.1	1.000067
43010.0	1012.9	-57.9			296.0	571.6	66.5	21.2	1.000066
43510.0	1018.6	-59.1			290.7	570.0	66.0	20.8	1.000065
44010.0	1014.1	-60.3			285.4	568.4	65.3	20.7	1.000064
44510.0	1010.1	-61.2			279.7	567.1	64.5	21.1	1.000062
45010.0	1016.0	-62.1			274.0	565.9	64.1	21.1	1.000061
45510.0	1012.0	-63.0			268.5	564.7	64.0	21.0	1.000060
46010.0	1018.0	-63.9			263.1	563.5	65.6	19.9	1.000059
46510.0	1014.2	-64.8			257.8	562.3	70.4	17.8	1.000057
47010.0	1010.4	-65.7			252.6	561.1	78.5	16.7	1.000056
47510.0	1016.7	-66.9			247.8	559.4	90.1	17.7	1.000055
48010.0	1013.0	-68.2			243.2	557.7	98.4	18.4	1.000054
48510.0	1019.5	-69.5			238.5	556.0	102.0	17.4	1.000053
49010.0	1016.0	-70.0			233.2	555.3	105.3	16.0	1.000052
49510.0	1012.5	-70.0			227.9	554.5	104.3	11.8	1.000051
50010.0	1029.2	-70.0			221.0	553.2	102.1	7.6	1.000049
50510.0	1026.9	-69.1			215.1	550.4	92.1	5.1	1.000048
51010.0	1022.8	-69.0			209.5	546.6	66.7	3.0	1.000047

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3459.50 FT MSL
10 JULY 19 0720 HRS MDT
ASCENSION NO. 361

UPPER AIR DATA
192000Z 367
WHITE SALIS

GEODETIC COORDINATES
32°40'04.3" LAT DEG
106°37'03.3" LONG DEG

TABLE 4 (continued)

GEODETIC PRESSURE ALTITUDE MSL FT	TEMP. AIR DEGREES CENTIGRADE	REL. ¹¹¹¹ PERCENT	DENSITY GM/CUBIC METER	SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
51500.0	119.7	-70.0	205.3	555.2	61.0	4.6	1.000046
52000.0	116.7	-71.1	201.1	553.8	59.0	6.3	1.000045
52500.0	113.7	-72.1	197.0	552.4	70.9	8.8	1.000044
53000.0	110.7	-73.1	193.0	551.0	77.7	11.6	1.000043
53500.0	108.7	-73.5	188.5	550.4	81.3	14.2	1.000042
54000.0	106.7	-72.8	183.1	551.4	85.7	16.8	1.000041
54500.0	102.6	-72.1	177.0	552.4	83.4	18.7	1.000040
55000.0	100.0	-71.4	172.6	553.4	81.8	20.2	1.000039
55500.0	97.2	-70.6	167.7	554.4	80.7	21.3	1.000037
56000.0	95.1	-69.9	162.9	555.4	80.9	19.7	1.000036
56500.0	92.7	-69.1	158.3	556.5	81.1	18.0	1.000035
57000.0	90.4	-68.3	153.8	557.5	83.3	17.2	1.000034
57500.0	88.2	-67.6	149.4	558.6	87.0	16.9	1.000033
58000.0	86.0	-66.8	145.2	559.6	90.0	16.9	1.000032
58500.0	83.8	-66.1	141.0	560.6	91.9	17.1	1.000031
59000.0	81.6	-65.3	137.0	561.7	93.7	16.9	1.000030
59500.0	79.1	-64.5	133.1	562.7	95.4	15.1	1.000029
60000.0	77.7	-63.8	129.4	563.7	97.8	13.3	1.000028
60500.0	75.8	-64.0	126.3	564.6	102.9	11.7	1.000027
61000.0	74.0	-64.1	123.3	565.2	109.5	10.3	1.000026
61500.0	72.2	-64.3	120.4	565.0	112.0	10.1	1.000027
62000.0	70.4	-64.5	117.5	562.8	115.5	10.1	1.000026
62500.0	68.7	-64.4	114.6	562.4	114.3	10.8	1.000026
63000.0	67.7	-65.1	112.2	561.9	116.2	12.5	1.000025
63500.0	65.9	-65.4	109.6	561.5	113.7	14.2	1.000024
64000.0	63.8	-65.0	106.7	562.1	107.3	15.2	1.000024
64500.0	62.2	-64.3	103.8	563.0	101.0	16.4	1.000023
65000.0	60.7	-63.7	101.0	563.9	94.0	17.4	1.000022
65500.0	59.3	-63.0	98.2	564.8	85.4	18.6	1.000022
66000.0	57.8	-62.3	95.0	565.6	79.5	19.9	1.000021
66500.0	56.9	-61.7	93.0	566.5	79.0	20.5	1.000021
67000.0	55.1	-61.0	90.4	567.4	79.7	21.1	1.000020

STATION ALTITUDE 3989.00 FT MSL
10 JULY 1970 0720 HRS MDT
ASCENSION ISL.

IRPEK AIR STATION
192011Z JUL 7
WHITE SANDS

GEODETIC COORDINATES
32°40'04.3 LAT DEG
106°37'03.3 LON DEG

TABLE 4 (continued)

GEODETIC ALTITUDE MSL	PREVIOUS ALTITUDE MSL	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY G/M CUBIC METER	SPLIT OF SOUND KNOTS	MIN. DATA DIRECTION DEGREES	MIN. DATA SPEED KNOTS	INDEX OF REFRACTION
67500.0	53.7	-60.4	88.0	368.3	80.9	20.6	1.000020	
68000.0	52.4	-59.7	85.6	369.2	82.4	20.0	1.000019	
68500.0	51.2	-59.0	83.3	370.1	83.9	19.6	1.000019	
69000.0	49.9	-58.4	81.0	370.9	85.2	20.3	1.000018	
69500.0	48.8	-58.0	79.0	371.5	86.4	21.0	1.000018	
70000.0	47.6	-57.6	77.0	372.0	86.9	23.7	1.000017	
70500.0	46.5	-57.2	75.1	372.5	87.4	26.5	1.000017	
71000.0	45.4	-56.8	73.2	373.1	88.5	26.3	1.000016	
71500.0	44.1	-56.4	71.3	373.6	89.9	25.8	1.000016	
72000.0	43.4	-56.0	69.5	374.1	91.2	30.9	1.000015	
72500.0	42.3	-55.6	67.8	374.7	92.4	30.5	1.000015	
73000.0	41.4	-55.2	66.1	375.2	93.7	30.1	1.000015	
73500.0	40.4	-54.8	64.4	375.7	94.5	29.9	1.000014	
74000.0	39.5	-54.4	62.8	376.2	95.9	30.4	1.000014	
74500.0	38.5	-54.0	61.2	376.8	95.3	30.9	1.000014	
75000.0	37.6	-53.6	59.7	377.3	92.3	31.3	1.000013	
75500.0	36.5	-53.2	58.2	377.8	90.4	31.6	1.000013	
76000.0	35.9	-52.8	56.8	378.4	88.5	32.3	1.000013	
76500.0	35.1	-52.4	55.3	378.9	87.7	32.0	1.000012	
77000.0	34.3	-52.0	53.9	379.4	86.3	33.3	1.000012	
77500.0	33.5	-51.6	52.6	379.9	85.0	33.7	1.000012	
78000.0	32.7	-51.2	51.3	380.5	83.9	34.1	1.000011	
78500.0	31.9	-50.8	50.0	381.0	91.0	36.5	1.000011	
79000.0	31.2	-50.4	48.7	381.5	92.2	35.0	1.000011	
79500.0	30.4	-50.0	47.5	382.0	92.7	35.5	1.000011	
80000.0	29.7	-49.6	46.4	382.5	92.7	36.0	1.000010	
80500.0	29.1	-49.4	45.3	382.8	92.8	36.6	1.000010	
81000.0	28.4	-49.1	44.2	383.1	93.1	37.1	1.000010	
81500.0	27.8	-49.0	43.1	383.4	93.6	37.3	1.000010	
82000.0	27.1	-49.0	42.1	383.8	94.2	37.6	1.000009	
82500.0	26.5	-48.4	41.1	384.1	94.6	37.3	1.000009	
83000.0	25.9	-48.1	40.1	384.4	94.8	35.8	1.000009	

STATION ALTITUDE 3989.00 FEET MSL
IN JULY 1959 0720 HRS MDT
ASCLINATION NO. 30°

UPPER AIR DATA
1920020317
WHITE SANDS

GEONETIC COORDINATES
32°40'03" LAT LEG
106°37'03" LONG DEG

TABLE 4 (continued)

GEOMETRIC ALTIMETER MIL FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR UTM POINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUMIC METER	SOUND KIOTS	WIND DATA DIRECTION DEGREES KNOTS	INDEX OF REFRACTION
8550.0	23.3	-47.9	39.2	564.7	95.0	34.3	1.000009
8450.0	24.5	-47.6	50.5	515.1	95.0	33.1	1.000009
8450.0	24.2	-47.4	37.4	515.4	95.7	33.5	1.000008
8450.0	23.5	-47.1	36.5	585.7	92.4	33.8	1.000008
8450.0	23.1	-46.9	35.6	586.0	91.2	34.2	1.000008
8450.0	22.6	-46.6	34.8	586.3	83.7	36.2	1.000008
8450.0	22.1	-46.4	53.9	586.7	80.5	36.2	1.000008
8450.0	21.6	-46.1	53.1	587.0	84.5	40.4	1.000007
8750.0	21.1	-45.9	32.4	587.3	82.6	41.4	1.000007
8800.0	20.6	-45.6	31.6	587.6	81.2	42.3	1.000007
8850.0	20.2	-45.4	36.8	587.9	79.6	43.2	1.000007
8900.0	19.7	-45.1	30.1	588.3	79.3	43.4	1.000007
8950.0	19.3	-44.9	29.4	588.6	79.6	43.1	1.000007
9000.0	18.9	-44.6	28.7	588.9	79.9	42.6	1.000006
9050.0	18.4	-44.3	20.1	589.3	80.6	42.3	1.000006
9100.0	18.0	-44.1	27.4	589.6	81.9	41.5	1.000006
9150.0	17.6	-43.8	26.0	590.0	83.3	40.7	1.000006
9200.0	17.2	-43.6	26.2	590.3	84.9	40.4	1.000006
9250.0	16.9	-43.3	25.6	590.6	86.9	43.4	1.000006
9300.0	16.5	-43.0	25.0	591.0	88.6	46.5	1.000006
9350.0	16.1	-42.4	24.4	591.3	90.2	49.6	1.000005
9400.0	15.8	-42.5	23.8	591.6	92.9	49.8	1.000005
9450.0	15.4	-42.3	23.3	592.0	95.8	49.6	1.000005
9500.0	15.1	-42.0	22.7	592.3	90.7	50.0	1.000005
9550.0	14.7	-41.7	22.2	592.6	100.7	48.1	1.000005
9600.0	14.4	-41.5	21.7	593.0	101.9	43.5	1.000005
9650.0	14.1	-41.2	21.2	593.3	103.4	39.0	1.000005
9700.0	13.8	-41.0	20.7	593.6	105.2	34.5	1.000005
9750.0	13.5	-40.7	20.2	594.0	105.5	1.000005	
9800.0	13.2	-40.4	19.7	594.3	1.000004		
9850.0	12.9	-40.2	19.3	594.6	1.0.8	1.000004	
9900.0	12.6	-39.9	1.0.6	595.0	1.000004		

STATION ALTITUDE 3900.00 FEET MSL
11 JULY 19 0720 HRS MDT
ASCENSION ISL. 30°/

MANDATORY LEVELS
192012n3b7
WHITE SANDS
0720 HRS MDT

TABLE 5.

PRESSURE OF POTENTIAL MILLIBARS	FELT	TEMPERATURE		WIND DIRECTION DEGREES (TN)	WIND SPEED KNOTS
		AIR DEGREES CENTIGRADE	DEWPNT CENTIGRADE		
850.0	505.7	22.9	12.2	51.	108.1
800.0	6776.	20.6	10.3	52.	111.0
750.0	8670.	17.6	8.3	54.	120.1
700.0	10511.	12.5	5.9	64.	85.0
650.0	12567.	7.6	4.4	60.	75.3
600.0	14711.	3.8	-13.5	27.	89.0
550.0	17020.	.6	-17.6	24.	117.8
500.0	19509.	-3.1	-21.8	22.	131.3
450.0	22212.	-9.7	-26.9	23.	136.0
400.0	25142.	-17.3	-32.5	25.	129.2
350.0	28377.	-22.9	-37.2	26.	96.4
300.0	32018.	-31.2	-43.3	29.	68.7
250.0	36106.	-41.4	-41.4	29.	82.0
200.0	41017.	-53.1	-53.1	73.0	22.0
175.0	43014.	-60.1	-60.1	65.5	20.7
150.0	46927.	-65.8	-65.8	79.2	16.8
125.0	51503.	-68.0	-68.0	88.0	4.5
100.0	56074.	-71.6	-71.6	81.9	20.1
80.0	59223.	-64.6	-64.6	95.0	15.5
70.0	61905.	-64.5	-64.5	113.0	10.1
60.0	64903.	-63.3	-63.3	90.5	17.8
50.0	68712.	-59.4	-59.4	85.1	20.2
40.0	73358.	-54.6	-54.6	94.4	30.0
30.0	79418.	-49.7	-49.7	92.7	35.6
25.0	83400.	-47.7	-47.7	95.2	35.6
20.0	88260.	-45.3	-45.3	79.2	43.5
15.0	94605.	-41.0	-41.0	98.9	50.0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
10 JULY 00 0630 HRS MDT
ASCENSION 40. 23. 0630 HRS MDT

SIGNIFICANT LEVEL DATA

1920010233

HOLLOWAY

GEODETIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

TABLE 6.

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE FEET	TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	
			AIR DEMPULU CENTIGRADE	REL. HUM.
873.5	4126.6	19.5	10.1	58.0
868.8	4143.2	24.8	11.4	73.0
850.0	5074.5	25.6	9.0	37.0
806.6	6579.4	21.9	8.0	43.0
757.2	9169.1	17.9	6.1	47.0
700.0	10558.6	12.9	4.1	55.0
662.2	12013.2	9.1	1.6	60.0
607.0	14027.0	2.0	-1.4	78.0
595.5	14034.5	1.7	-1.2	23.0
549.4	152017.7	2.5	-20.0	17.0
580.6	156117.6	3.1	-22.6	13.0
563.4	164016.2	1.9	-22.0	15.0
521.4	18411.7	-2.9	-25.0	15.0
500.0	19530.9	-4.1	-28.4	13.0
490.0	22229.2	-10.7	-32.9	14.0
447.7	22158.8	-11.0	-35.2	14.0
400.0	25172.3	-17.1	-38.1	14.0
369.8	27093.4	-21.5	-41.1	15.0
356.2	28010.3	-22.7	-41.5	16.0
380.0	32067.9	-32.3	-48.5	18.0
292.0	32694.2	-33.5	-49.5	18.0
250.0	36244.5	-38.8		
219.8	39058.0	-45.7		
200.0	41112.0	-51.5		
181.2	43162.2	-50.4		
167.0	44733.4	-62.7		
150.0	46086.6	-68.2		
132.2	49461.0	-72.5		
125.0	50554.7	-69.5		
108.2	53168.9	-73.2		
100.0	54093.8	-72.7		
92.0	56366.7	-68.5		

STATION ALTITUDE 4126.59 FEET MSL
10 JULY 1960
ASCENT 1000' 100'. 0630 HRS MDT

SIGNIFICANT LEVEL DATA
1920010253

HOLLOWAY

GEODETIC COORDINATES
32.8886 LAT DEG
106.09965 LON DEG

TABLE 6 (continued)

PRESSURE GEOMETRIC MILLIBARS MSL FEET	ALTITUDE DEGREES MSL FEET	TEMPERATURE		REL.HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
81.4	3523.1	-69.0	-63.9	
70.0	6176.2	-63.9	-56.5	
50.0	6878.4	-56.5	-52.3	
34.6	76775.6	-52.3		

STATION ALTITUDE 1126.59 FEET MSL
10 JULY 80 0630 HRS MDT
ASCENSION ISL. 233

UPPER AIR LAYER
1920010203
HOLLOWAY

TABLE 7.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES C	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DATA DIRECTION DEGREES (TN)	INDEX OF REFRACTION
4126.6	978.5	16.5	100.1	58.0	103.8	0.0
4500.0	967.1	24.9	11.3	42.5	100.7	0.9
4900.0	952.2	25.5	10.0	37.7	948.6	2.2
5300.0	939.5	24.6	9.6	38.7	975.1	3.5
5700.0	925.0	23.5	9.2	40.7	974.0	4.7
6500.0	898.4	22.1	8.8	42.7	961.9	5.7
7000.0	894.7	20.9	9.2	43.9	936.8	7.5
7500.0	890.8	19.6	7.4	45.1	924.4	8.3
8000.0	877.1	18.4	6.6	46.2	912.2	9.9
8500.0	853.7	17.2	6.0	47.5	899.9	11.0
9000.0	820.3	16.2	5.6	49.3	887.2	12.8
9500.0	797.1	15.1	5.1	51.1	874.6	14.2
10000.0	774.2	14.1	4.6	53.0	862.3	15.4
10500.0	751.5	13.0	4.1	54.8	850.1	16.9
11000.0	686.8	11.0	3.4	56.4	838.5	17.7
11500.0	676.4	10.6	2.7	59.1	827.1	19.7
12000.0	664.2	9.3	1.9	59.7	815.9	21.2
12500.0	652.0	7.6	1.3	63.2	805.2	22.7
13000.0	640.0	6.3	0.7	67.0	796.8	25.5
13500.0	628.5	4.0	0.0	70.9	784.5	26.0
14000.0	616.7	3.3	-0.6	79.7	774.4	26.5
14500.0	605.3	2.0	-2.9	70.1	764.2	27.1
15000.0	594.0	1.7	-17.8	21.6	751.7	28.4
15500.0	583.0	2.9	-21.8	14.1	735.1	29.4
16000.0	572.1	2.5	-22.3	14.0	722.0	30.1
16500.0	561.4	1.6	-22.2	15.0	711.4	30.7
17000.0	550.6	0.5	-23.1	15.0	700.9	34.6
17500.0	540.4	-0.7	-20.0	15.0	690.5	43.5
18000.0	530.2	-1.8	-25.0	15.0	680.4	41.9
18500.0	520.2	-2.9	-25.9	14.9	670.2	40.6
19000.0	510.3	-3.5	-27.1	14.0	678.9	39.6
19500.0	500.0	-4.1	-23.3	13.1	687.8	39.2

SATION ALITUDE 1126.59 FEET MSL
10 JULY 6th 0630 HRS MDT
ASCENSION I.O. 233

UPPER AIR DATA
192001023
HOLLOWAY

TABLE 7 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE DEGREES CENTIGRADE	REL.HUM. PERCENT	REFRACT. METER	DENSITY GM/CUBIC KNOTS	SLD OF SOUND KNOTS	WIND DATA DIRECTION DEGREES	WIND SPEED KNOTS	INDEX OF REFRACTION
20000.0	100.0	-5.2	-27.1	13.2	630.1	637.8	146.1	24.0	1.000145
20500.0	101.4	-6.5	-30.0	13.4	628.7	636.3	146.2	23.5	1.000145
21000.0	102.4	-7.7	-30.8	13.5	619.4	634.9	146.7	22.2	1.000140
21500.0	103.9	-8.9	-31.7	13.7	610.2	633.4	148.0	19.7	1.000138
22000.0	104.9	-10.1	-32.5	13.9	601.2	631.9	149.8	15.9	1.000136
22500.0	105.2	-11.3	-33.4	14.0	592.1	630.5	149.7	12.6	1.000134
23000.0	106.4	-12.4	-34.3	14.0	582.8	629.2	126.7	18.0	1.000132
23500.0	107.7	-13.5	-35.2	14.0	573.6	627.9	125.1	23.7	1.000129
24000.0	109.2	-14.6	-36.1	14.0	564.6	626.5	122.5	25.7	1.000127
24500.0	110.9	-15.6	-36.9	14.0	555.8	625.2	122.0	26.2	1.000125
25000.0	112.6	-16.6	-37.8	14.0	547.1	623.9	122.7	26.6	1.000123
25500.0	117.9	-37.6	14.2	538.4	622.5	122.4	27.1	1.000121	
26000.0	116.7	-37.4	14.4	529.9	621.1	122.8	25.6	1.000119	
26500.0	119.0	-20.1	-40.2	14.7	521.6	619.7	122.7	23.2	1.000117
27000.0	118.9	-21.2	-41.0	15.0	513.4	618.3	122.7	20.8	1.000115
27500.0	119.0	-22.0	-41.3	15.4	504.4	617.4	117.9	16.5	1.000113
28000.0	22.7	-41.5	16.0	495.4	616.6	109.0	16.6	1.000111	
28500.0	23.9	-42.3	16.2	487.3	615.1	100.7	15.7	1.000109	
29000.0	21.5	-43.2	16.5	479.4	613.7	91.4	15.5	1.000108	
29500.0	24.3	-41.0	16.7	471.7	612.2	86.9	16.0	1.000106	
30000.0	27.4	-40.9	17.0	464.0	610.7	83.8	16.6	1.000104	
30500.0	28.6	-45.8	17.2	456.5	609.3	81.7	17.6	1.000102	
31000.0	31.4	-46.8	17.5	449.2	607.8	80.0	16.8	1.000101	
31500.0	31.9	-31.0	-47.5	17.7	441.9	606.3	77.9	19.2	1.000099
32000.0	31.9	-32.1	-47.4	18.0	434.6	605.8	75.8	19.5	1.000097
32500.0	31.4	-33.1	-47.2	18.0	427.3	603.6	74.1	19.7	1.000096
33000.0	31.1	-34.0	-50.7	16.4**	419.6	602.5	72.0	19.9	1.000094
33500.0	31.9	-34.7	-52.7	13.9**	411.8	601.6	72.4	20.9	1.000092
34000.0	31.7	-35.4	-55.0	11.4**	404.2	600.6	72.6	22.1	1.000090
34500.0	35.9	-36.2	-57.6	9.8**	396.7	599.7	74.5	23.5	1.000089
35000.0	36.0	-36.9	-60.8	6.3**	389.3	598.8	77.1	24.9	1.000087
35500.0	37.3	-37.7	-65.2	3.8**	382.1	597.8	78.7	26.2	1.000085

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL
10 JULY 89
ASCENSION NO. 230 0630 HRS MDT

UPPER AIR DATA
192010Z 0233
HOLLOWAY

TABLE 7 (continued)

GEODEMIC ALTITUDE MSL FEET	PRES-SURGE MILLIBARS	TEMPERATURE DEGREES C	REL. HUM. PERCENT	SPEED OF SOUND METER KNOTS	WIND DATA DIRECTION DEGREES (IN) INDEX OF REFRACTION
36000.0	252.7	-38.4	1.20*	375.0	596.9 79.5 27.2 1.00004
36500.0	247.1	-39.8		368.9 595.1 79.3 27.7 1.000042	
37000.0	241.6	-41.7		363.6 592.7 77.5 27.4 1.000041	
37500.0	236.2	-43.6		358.5 590.2 75.7 27.1 1.000040	
38000.0	230.9	-45.5		353.4 587.8 73.9 26.4 1.000039	
38500.0	225.7	-47.4		348.4 585.3 72.1 25.8 1.000038	
39000.0	220.7	-49.4		343.5 582.8 70.6 25.3 1.000037	
39500.0	215.0	-51.7		337.0 581.1 68.9 24.9 1.000035	
40000.0	210.6	-51.9		331.6 579.5 66.5 25.2 1.000034	
40500.0	205.7	-53.1		325.6 576.0 64.0 25.5 1.000033	
41000.0	201.0	-54.3		319.8 573.4 67.1 25.3 1.000031	
41500.0	196.2	-55.5		314.0 571.8 65.9 25.0 1.000030	
42000.0	191.6	-56.6		308.2 570.2 63.6 24.1 1.000029	
42500.0	187.0	-57.8		302.6 571.7 60.2 22.7 1.000027	
43000.0	182.6	-59.0		297.1 570.1 57.8 21.6 1.000026	
43500.0	178.2	-60.1		291.4 567.7 56.7 20.9 1.000025	
44000.0	173.9	-61.1		285.7 567.4 56.0 20.0 1.000024	
44500.0	169.7	-62.0		280.1 566.0 60.3 19.0 1.000022	
45000.0	165.6	-63.1		274.7 564.6 65.0 18.3 1.000021	
45500.0	161.6	-64.4		269.0 562.9 68.8 19.1 1.000020	
46000.0	157.6	-65.7		264.6 561.1 72.2 20.0 1.000019	
46500.0	153.7	-67.0		259.6 559.4 73.7 20.4 1.000018	
47000.0	149.9	-68.2		254.8 557.7 75.1 20.9 1.000017	
47500.0	146.1	-69.1		249.5 556.5 60.0 20.7 1.000016	
48000.0	142.4	-70.0		244.2 555.3 68.3 20.2 1.000015	
48500.0	138.8	-70.8		239.1 554.1 95.9 20.1 1.000014	
49000.0	135.3	-71.7		234.1 552.9 98.2 19.2 1.000013	
49500.0	131.9	-72.6		228.9 552.0 100.7 18.3 1.000012	
50000.0	128.6	-71.0		221.6 553.9 97.9 14.6 1.000011	
50500.0	125.4	-69.6		214.6 555.7 89.8 16.1 1.000010	
51000.0	122.2	-70.1		209.6 555.2 77.5 6.7 1.000009	
51500.0	119.1	-70.7		205.0 554.3 67.1 4.6 1.000008	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4120.59 FT. 1 MSL
10 JULY 1970 0630 HRS MDT
ASCENSION I.O. 233

UPPER AIR DATA

192010Z 233

HOLLOWAY

TABLE 7 (continued)

GEOPHYSIC PRESSURE	TEMPERATURE AIR	REL.HUM. PERCENT	INTENSITY GM/CUBIC	WIND DIRECTION DEGREES	WIND SPEED KNOTS	INDEX OF REFRACTION
ALITUDE FT. I	WILLIAMS URGES CENIGRADE	CENTIGRADE	METER	DEGREES	KIOTS	
52000.0	416.1	-71.4	200.4	553.4	44.7	3.2
52500.0	415.1	-72.1	196.0	552.5	61.7	4.5
53000.0	410.3	-72.7	191.6	551.5	72.1	6.3
53500.0	407.5	-73.2	187.2	550.9	76.8	8.4
54000.0	404.7	-73.0	182.3	551.2	77.5	10.9
54500.0	402.1	-72.8	177.5	551.4	78.0	13.4
55000.0	99.5	-72.4	172.6	552.0	75.9	14.6
55500.0	97.0	-71.0	167.0	554.0	72.9	15.3
56000.0	94.7	-69.7	161.7	555.9	71.0	15.6
56500.0	92.1	-68.5	156.0	557.4	71.2	14.9
57000.0	89.8	-68.4	152.8	557.5	71.3	14.3
57500.0	87.6	-68.3	148.9	557.6	76.8	14.5
58000.0	85.4	-68.2	145.2	557.7	82.5	14.6
58500.0	83.3	-68.1	141.5	557.9	85.4	15.3
59000.0	81.2	-67.9	137.9	558.1	86.5	15.7
59500.0	79.2	-67.3	134.0	559.0	88.5	16.1
60000.0	77.3	-66.6	130.3	559.9	92.3	16.6
60500.0	75.4	-65.9	126.7	560.8	95.8	17.3
61000.0	73.5	-65.2	123.1	561.8	96.2	18.4
61500.0	71.7	-64.5	119.7	562.7	96.5	19.5
62000.0	69.9	-63.9	116.4	563.6	95.8	19.3
62500.0	68.2	-63.4	113.3	564.3	93.8	17.6
63000.0	66.4	-62.8	110.3	565.0	91.4	16.2
63500.0	64.7	-62.3	107.4	565.7	91.3	15.1
64000.0	63.0	-61.7	104.6	566.4	92.2	14.1
64500.0	61.4	-61.2	101.4	567.2	93.3	13.1
65000.0	60.9	-60.7	99.1	567.9	93.2	14.6
65500.0	59.4	-60.1	96.5	568.6	93.1	15.9
66000.0	57.9	-59.6	93.9	569.3	92.9	16.8
66500.0	56.4	-59.1	91.5	570.0	92.0	15.7
67000.0	54.9	-58.5	89.0	570.7	90.9	14.6
67500.0	53.5	-58.0	86.7	571.4	89.9	14.1

STATION ALTITUDE 4126.59 FEET MSL
 11 JULY 81 0630 HRS MDT
 ASCLATION 1.0.

UPPER AIR DATA
 1920010235
 HOLLOWAY

GEODETIC COORDINATES
 32.88865 LAT DEG
 106.09965 LON DEG

TABLE 7 (continued)

GEODETIC ALTITUDE MSL FEET	PRESSURE IN MILLIBARS	TEMPERATURE AIR IN DEGREES CELSIUS	REL.HUM. PERCENT	DENSITY GM/CURIC	WIND DATA DIRECTION DEGREES	INDEX OF REFRACTION
				METER	KNOTS	DGRELSIN
6950.0	102.5	-57.5	84.4	572.1	89.0	14.2
6954.0	51.0	-56.9	82.2	572.8	88.1	14.2
6958.0	49.8	-56.5	80.0	573.5	89.0	14.2
6962.0	48.6	-56.2	78.1	573.8	89.7	14.2
7000.0	47.5	-55.9	76.2	574.2	90.3	14.2
7050.0	46.4	-55.6	74.3	574.6	92.2	14.2
7100.0	45.3	-55.4	72.5	574.9	93.9	14.2
7150.0	44.2	-55.1	70.7	575.3	95.3	14.2
7200.0	43.2	-54.8	68.9	575.6	95.4	14.2
7250.0	42.2	-54.6	67.3	576.0	95.4	14.2
7300.0	41.2	-54.3	65.6	576.3	95.4	14.2
7350.0	40.3	-54.0	64.0	576.7	95.0	14.2
7400.0	39.3	-53.8	62.4	577.0	94.6	14.2
7450.0	38.4	-53.5	60.9	577.4	94.2	14.2
7500.0	37.5	-53.2	59.4	577.7	94.2	14.2
7550.0	36.6	-52.9	57.9	578.1	94.0	14.2
7600.0	35.7	-52.7	56.5	578.5	93.6	14.2
7650.0	34.9	-52.4	55.1	578.8	93.2	14.2

STATION AL111111 4126.59 FEET MSL
10 JULY 1960 0630 HRS MDT
AIRCRAFT NO. 293

MANDATORY LEVELS
1920110233
HOLLOW AIR

GEOMETRIC COORDINATES
32.88865 LAT DEG
106.09965 LON DEG

TABLE 8.

PRESSURE STATION POINT	ALTITUDE FEET	TEMPERATURE		REL.HUM. PERCENT	WIND DATA
		ATP. DEGREES	CENTIGRADE DEGREES		
650.0	5071.	25.6	9.8	37.	62.0 2.4
800.0	65018.	21.3	8.4	44.	103.2 6.6
750.0	46311.	16.0	5.9	48.	179.7 11.5
700.0	10516.	12.9	4.1	55.	75.9 9.7
650.0	12576.	7.6	1.2	64.	73.0 15.7
600.0	14710.	1.8	-8.9	45.	89.5 15.3
550.0	17021.	*4	-23.2	15.	119.4 15.8
500.0	19504.	-10.1	-28.4	13.	143.7 23.0
450.0	22176.	-10.7	-32.9	14.	150.9 13.1
400.0	25111.	-17.1	-38.1	14.	122.7 26.8
350.0	28372.	-25.7	-42.2	16.	102.4 15.6
300.0	32044.	-32.3	-48.5	18.	175.5 19.6
250.0	36165.	-38.8			79.9 27.6
200.0	41002.	-54.5			66.9 25.3
175.0	43766.	-60.8			54.0 20.3
150.0	46866.	-68.2			75.0 20.6
125.0	50419.	-69.5			89.1 9.6
100.0	54725.	-72.7			76.8 14.5
80.0	59102.	-67.5			87.1 15.9
70.0	61764.	-63.9			96.0 19.5
60.0	64869.	-60.5			93.2 14.7
50.0	68650.	-56.5			88.7 16.4
40.0	73323.	-54.0			95.0 29.5

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.